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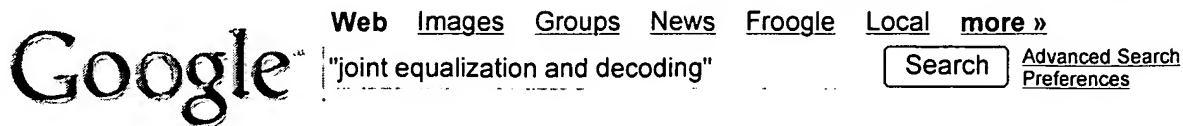
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| S24 | 9 | super adj trellis | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/02 16:34 |
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Joint equalization and decoding: why choose the iterative solution?

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Abstract

This paper deals with turbo-equalization as a joint equalization and decoding algorithm. The performance analysis shows that there is a trigger point in this iterative process, followed by a breakdown effect. After a given point (the trigger one), the BER decreases steeply as a function of the decoding step. We compare the performance of the turbo-equalizer with that of the optimal joint receiver and show that it matches the bound over the optimal disjoint receiver.

Index Terms**Inspection****Controlled Indexing**[channel coding](#) [equalisers](#) [error statistics](#) [iterative decoding](#) [turbo codes](#)**Non-controlled Indexing**[BER](#) [breakdown effect](#) [iterative decoding](#) [joint equalization/decoding](#) [performance analysis](#) [trigger point](#) [turbo equalization](#)**Author Keywords**

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